

Substitut for F rm 1449/PTO

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/654,559
Filing Date	September 2, 2003
First Named Inventor:	Robert N. Hasbun
Art Unit	2189
Examiner Name	R. Elmore
Attorney Docket Number	42390P4017C2

Sheet 1 of 5

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures App ar
		Number-Kind Code <sup>2</sup> (if known)				
R/E		US-	4,758,944	7/19/1988	Bartley et al.	
R/E		US-	4,849,878	7/18/1989	Roy	
R/E		US-	5,297,148	3/22/1994	Harari et al.	
R/E		US-	5,333,292	7/26/1994	Takemoto et al.	
R/E		US-	5,361,343	11/1/1994	Kosonocky et al.	
R/E		US-	5,404,485	4/4/1995	Ban	
R/E		US-	5,410,707	4/25/1995	Bell	
R/E		US-	5,437,020	7/25/1995	Wells et al.	
R/E		US-	5,473,753	12/5/1995	Wells et al.	
R/E		US-	5,475,753	12/12/1995	Barbara et al.	
R/E		US-	5,479,639	12/26/1995	Ewertz et al.	
R/E		US-	5,519,831	5/21/1996	Holzhammer	
R/E		US-	5,519,843	5/21/1996	Moran et al.	
R/E		US-	5,522,076	5/28/1996	Dewa et al.	
R/E		US-	5,530,673	7/25/1996	Tobita et al.	

## FOREIGN PATENT DOCUMENTS

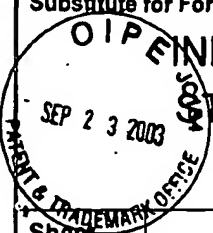
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>o</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

Examiner Signature	R. Elmore	Date Considered	4-16-06
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Substitute for Form 1449/PTO <div style="text-align: center;">  </div>			<b>Complete if Known</b>		
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		US-	Number-Kind Code <sup>2</sup> (if known)			
R/E		US-	5,533,190	7/2/1996	Binford et al.	
R/E		US-	5,535,357	7/9/1996	Moran et al.	
R/E		US-	5,535,369	7/9/1996	Wells et al.	
R/E		US-	5,563,828	10/8/1996	Hasbun et al.	
R/E		US-	5,577,194	11/19/1996	Wells et al.	
R/E		US-	5,579,522	11/26/1996	Christeson et al.	
R/E		US-	5,581,723	12/3/1996	Hasbun et al.	
R/E		US-	5,596,738	1/21/1997	Pope	
R/E		US-	5,602,987	2/11/1997	Harari et al.	
R/E		US-	5,603,056	2/11/1997	Totani	
R/E		US-	5,625,819	4/29/1997	Hoffer, Jr.	
R/E		US-	5,671,388	9/23/1997	Hasbun	
R/E		US-	5,680,570	10/21/1997	Rantala et al.	
R/E		US-	5,715,423	2/3/1998	Levy	
R/E		US-	5,717,886	2/10/1998	Miyauchi	

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First Named Inventor:	Robert N. Hasbun
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Examiner Name	R. Elmore
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RIC		US-	5,734,874	3/31/1998	Hook et al.	
RIC		US-	5,737,742	4/7/1998	Archiwa et al.	
RIC		US-	5,809,558	9/15/1998	Matthews et al.	
RIC		US-	5,933,838	8/3/1999	Lomet	
RIC		US-	5,937,434	8/10/1999	Hasbun et al.	
RIC		US-	5,974,426	10/26/1999	Lee et al.	
RIC		US-	6,014,755	1/11/2000	Wells et al.	
RIC		US-	6,088,759	7/11/2000	Hasbun et al.	
RIC		US-	6,122,733	9/19/2000	Christeson et al.	
RIC		US-	6,170,066 B1	1/2/2001	See	
RIC		US-	6,182,188 B1	1/30/2001	Hasbun et al.	
RIC		US-	6,243,789 B1	6/5/2001	Hasbun et al.	
RIC		US-	6,311,290 B1	10/30/2001	Hasbun et al.	
RIC		US-	6,412,040 B1	6/25/2002	Hasbun et al.	
		US-				

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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
R/E		"Intel and M-Systems Sign FTL Marketing Agreement," News and Events Press Releases, M-Systems, 2pgs. (December 11, 1995)	
R/E		"AMD Flash Card Products Supported by TrueFFS Software," News and Events Press Releases, M-Systems, 2pgs. (March 24, 1997)	
R/E		"M-Systems Announces a NOR Flash Disk Solution Suite," News and Events Press Releases, M-Systems, 3pgs. (August 19, 1996)	
R/E		"Offering up to 72Mbytes in a single-chip 32-pin DIP, Flash DiskOnChip 2000 showcases striking improvements in capacity, performance, and price," New and Events Press Releases, M-Systems, 3 pgs. (March 17, 1997)	
R/E		"Flash PC Card Performance and Capacity Boosted with the Series 2000 NAND-based Architecture," New and Events Press Releases, M-Systems, 2pgs. (January 27, 1997)	
R/E		"FTL, Flash Translation Layer," M-Systems, 2pgs., reprinted (April 11, 1997)	
R/E		"M-Systems Introduces Industry's Fastest SCSI Flash Disk," News and Events Press Releases, M-Systems, 2pgs. (March 14, 1996)	
R/E		"FlashDisk Alternatives, ATA Versus FTL," M-Systems, 8pgs. (May 1996)	
R/E		Maurice J. Bach, "The Design of the Unix Operating System," Prentice Hall, Inc., pgs. 285-305 (1986)	
R/E		"A TrueFFS and FLite Technical Overview of M-Systems' Flash File Systems", M-Systems Technology Brief, 10/96 (pgs. 1-10).	
R/E		Products Guide, M-Systems (reprinted 4/97), (3 pgs.)	

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